

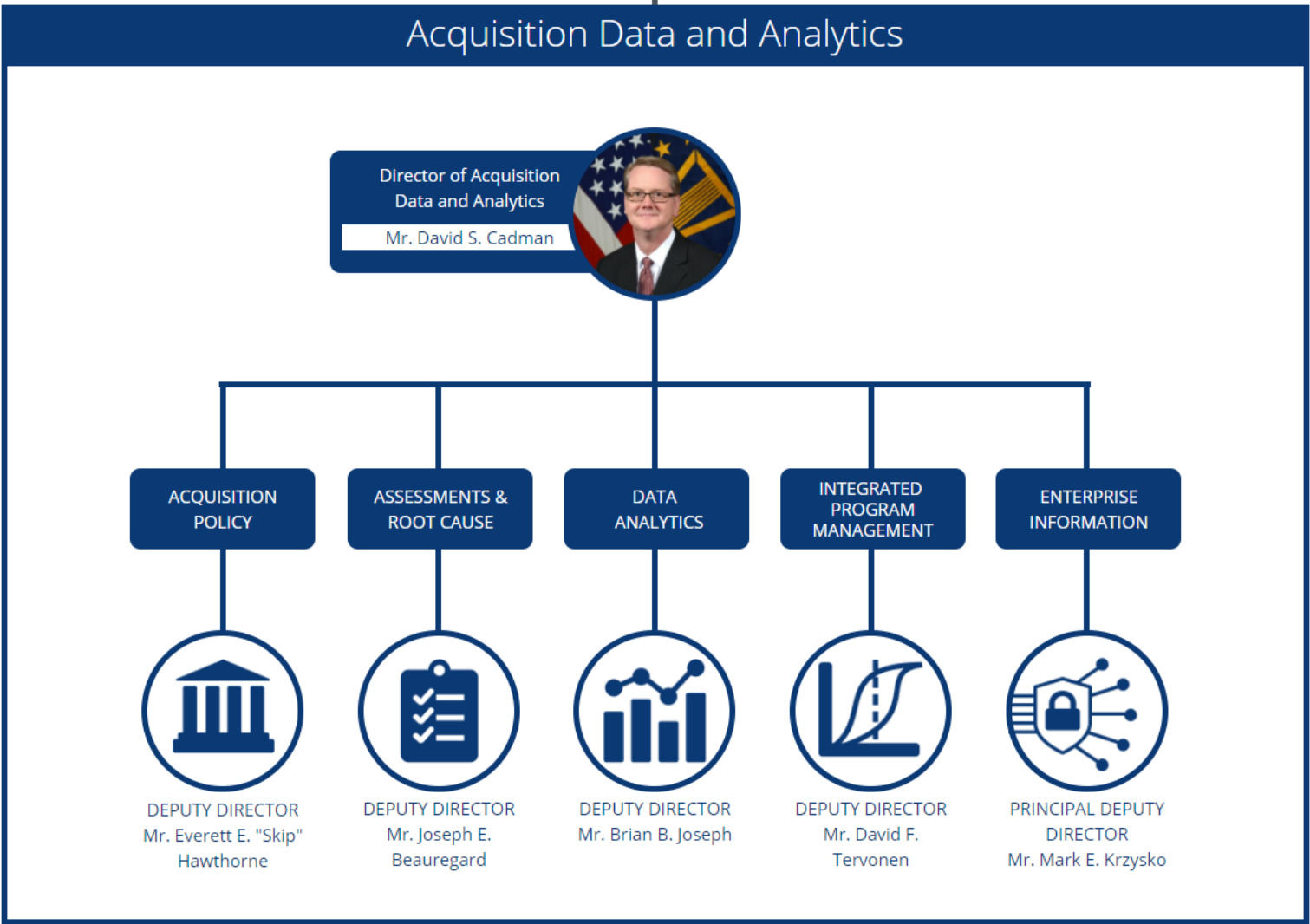
OSD Acquisition Data and Analytics (ADA) Updates

Mr. David Tervonen

Deputy Director for Integrated Program Management, ADA



- ▶ **Introduction**
- ▶ **AAP (now ADA) Organization Updates**
- ▶ **IPMDAR Overview & Policy Changes**
- ▶ **EVM-CR Workflow Updates**
- ▶ **Questions**



▶ EVM Division now IPM Division

- Focus broader than EVM; schedule and risk management is particularly high interest
- Denotes flexibility in approach
 - Based on pathway, management approach (i.e., agile)
- Emphasis on usable and useful data that isn't unduly burdensome to collect, report or analyze

▶ IPM Division Role

- Largely remains what it had been
 - Responsible for IPM-related policy and guidance
 - Aids in resolving issues and interpretation questions
 - Outreach to government and industry groups
 - Working to develop and maintain IPM talent
 - Collecting lessons learned and helping disseminate best practices as they are developed and recognized
- Fundamental questions being asked
 - What is the proper purpose of IPM in DoD Acquisitions?
What itch is IPM trying to scratch?
 - What is the appropriate role for the IPM Division in DoD?

▶ IPM Division Mission Statement

Promoting data driven decisions that improve acquisition outcomes through recognized management practices, flexible policy and guidance, innovative methods, and IPM knowledge/expertise

▶ IPM Division Pillars

- Promoting IPM Disciplines
- Creating more flexible policy and guidance
- Innovating at the speed of relevance
- Fostering IPM knowledge and expertise

IPMDAR Requirements & Implementation

Mr. John McGahan

EVM-CR Program Manager
Tecolote Research, Inc.



- ▶ **Introduction**
- ▶ **IPMDAR Policy Review**
- ▶ **IPMDAR Integration With EVM-CR**
- ▶ **Analysis Demo With Excel Pivot Data**
- ▶ **Questions**

IPMDAR POLICY REVIEW: THE DATA

► **Pre-PARCA: CPR & VARs DID and IMS DID**

- Separate (disconnected) deliverables
- CPR (Format 1-4) is a printable report format (and EDI 839)
- IMS is a native tool format (or a printed image of a GANTT)

► **PARCA (2012): IPMR DID Combines CPR, VARs and IMS**

- Reporting requirements aligned to capture cost/schedule data integrated
- Adopted UNCEFACT XML⁽¹⁾ Schema for all formats
 - Formats 1-4 mostly untouched (EDI839 to XML); plus printable reports
 - Introduced Format 6: XML snapshot of IMS (plus native)
 - Introduced (misunderstood) Format 7: Time-phased Format 1

► **AAP (2020): IPMDAR (EVMS Data, Not Printable Reports)**

- Corrects technical defects with cost/schedule integration
- JSON⁽¹⁾ encoding replaces XML
 - Format 6 mostly untouched (replaced with IPMDAR SPD)
 - Replace Formats 1-4, 7 with data more closely aligned to contractor EVMS (no requirement for printable reports)
- Reframed concept of VARs to facilitate conversation (what is needed by Govt)

(1) XML: eXtensible Markup Language; JSON: JavaScript Object Notation

IPMR Strengths / Purpose

- Performance analysis at reporting level (e.g. WBS, OBS)
- Gold Card Analytics (CPI, SPI, VAC, TCPI, EAC)

Limitations / Weakness

- Visibility into management controls (WBS & OBS vs. CA/WP)
- Visibility into execution plan (partial future forecast reporting)
- Limitations for cost/schedule integration visibility
- Visibility into retroactive contract changes

IPMDAR Same Strengths / Capability

- Generate performance analysis at reporting level (e.g. WBS, OBS)
- Gold Card Analytics (CPI, SPI, VAC, TCPI, EAC)
- Can generate legacy formats

And So Much More...

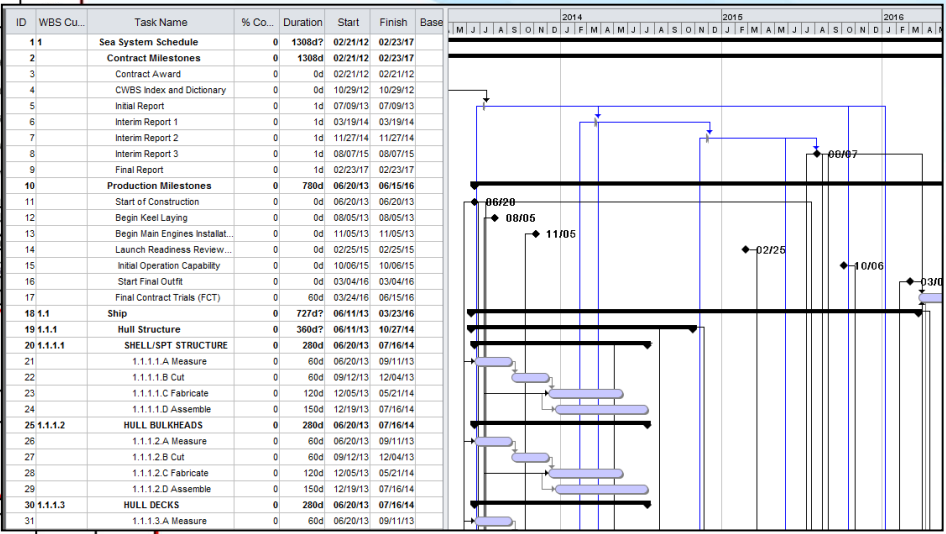
- CA or WP visibility
- Hours and dollars
- Element of Cost visibility
- Fully time-phased future plan
- Positive traceability between cost and schedule
- Visibility into retroactive contract changes with time-phased To Date

Greater Focus On Forward Looking Analytics

CPR Format 1: WBS View

COST PERFORMANCE REPORT													Form Approved OMB No. 0704-0188			
FORMAT 1 - WORK BREAKDOWN STRUCTURE													4. REPORT PERIOD a. FROM: 01-JAN-02 b. TO: 31-JAN-02			
1. CONTRACTOR a. NAME: ACME Construction b. LOCATION: Denver, CO			2. CONTRACT a. NAME: ACME Housing b. NUMBER: ACME - 1000 c. TYPE: FFP d. SHARE RATIO:				3. PROGRAM a. NAME: ACME Housing b. PHASE (X one) [] ROTAE [X] PRODUCTION									
5. CONTRACT DATA																
a. QTY 0		b. NEG COST \$183,852		c. EST COST AUTH UNPR \$0		d. TGT PROFIT/FEE \$36,147 / 20.00%		e. TGT PRICE 219,999		f. EST PRICE 219,999		g. CONT CEILING 0		h. EST CEILING 0		
6. EST COST AT COMPLETION			MGMT EST AT COMPL (1)		CONT BUDGET BASE (2)		VARIANCE (3)		7. AUTHORIZED CONTRACTOR REPRESENTATIVE							
a. BEST CASE			\$227,009						a. NAME (Last, First, Middle Initial) Ted Smith			b. TITLE Manager				
b. WORST CASE			\$165,467						c. SIGNATURE			d. DATE SIGNED				
c. MOST LIKELY			\$226,156		\$183,852		\$42,306					31-JAN-02				
8. PERFORMANCE DATA																
ITEM (1)	CURRENT PERIOD				CUMULATIVE TO DATE				AT COMPLETION							
	BUDGETED COST		ACTUAL COST		VARIANCE		BUDGETED COST		ACTUAL COST		VARIANCE		BUDGET (12)	EST (13)	ID	WBS Cu.
WORK SCHED (2)	WORK PERF (3)	WORK PERF (4)	SCHED (5)	COST (6)	WORK SCHED (7)	WORK PERF (8)	WORK PERF (9)	SCHED (10)	COST (11)							
1.1.1 Concrete	9,670	8,757	26,150	-912	-17,393	9,670	8,757	26,150	-912	-17,393	11,489	26,150	11,489	26,150	1	1
1.1.2 Framing	7,089	5,355	6,250	-1,734	-895	7,089	5,355	6,250	-1,734	-895	27,147	26,150	27,147	26,150	2	2
1.1.3 Plumbing	0	0	0	0	0	0	0	0	0	0	5,704	0	5,704	0	3	3
1.1.4 Electrical	0	0	0	0	0	0	0	0	0	0	14,070	0	14,070	0	4	4
1.1.5 Interior	0	0	0	0	0	0	0	0	0	0	6,328	0	6,328	0	5	5
1.1.6 Roofing	0	0	0	0	0	0	0	0	0	0	1,730	0	1,730	0	6	6
OVERHEAD	16,062	14,317	0	-1,745	14,317	16,062	14,317	0	-1,745	14,317	75,684	0	75,684	0	7	7
b. COST OF MONEY	19	17	0	-3	17	19	17	0	-3	17	82	0	82	0	8	8
c. GEN & ADMIN	5,429	4,702	0	-726	4,702	5,429	4,702	0	-726	4,702	23,237	0	23,237	0	9	9
d. UNDISTRIBUTED BUDGET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
e. SUBTOTAL (PM Baseline)	38,269	33,149	32,400	-5,120	749	38,269	33,149	32,400	-5,120	749	185,467	165,467	185,467	165,467	11	11
f. MANAGEMENT RESERVE	0	0	0	0	0	0	0	0	0	0	18,361	0	18,361	0	12	12
g. TOTAL	38,269	33,149	32,400	-5,120	749	38,269	33,149	32,400	-5,120	749	183,852	165,467	183,852	165,467	13	13

IMS: GANTT View of Tasks



CPR Format 2: OBS View

COST PERFORMANCE REPORT													23	24	25	26	27	28	29	30	31
FORMAT 2 - ORGANIZATIONAL CATEGORIES													25.1.1.2								
1. CONTRACTOR			2. CONTRACT					3. PROGRAM					HULL BUILDING								
a. NAME: ACME Construction			a. NAME: ACME Housing					a. NAME: ACME Housing					1.1.1.2								
b. LOCATION: Denver, CO			b. NUMBER: ACME - 1000					b. PHASE (X one)					1.1.1.2								
			c. TYPE: FFP					[] ROTAE [X] PRODUCTION					1.1.1.2								
			d. SHARE RATIO:										1.1.1.2								
5. PERFORMANCE DATA													30.1.1.3						HULL BUILDING		
ITEM	BUDGETED COST		ACTUAL COST WORK PERF (4)	VARIANCE		BUDGETED COST		ACTUAL COST WORK PERF (9)	VARIANCE		BUDGET (12)	EST (13)	VAR (14)								
	WORK SCHED (2)	WORK PERF (3)		SCHED (5)	COST (6)	WORK SCHED (7)	WORK PERF (8)		SCHED (10)	COST (11)											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)								
Construction	12,116	9,560	10,300	-2,556	-740	12,116	9,560	10,300	-2,556	-740	17,226	17,965	-739								
Management																					
Project Management	7,503	5,668	6,250	-1,835	-582	7,503	5,668	6,250	-1,835	-582	19,475	20,057	-582								
SubCont																					
Subcontractor Mgmt	13,203	13,203	15,850	0	-2,647	13,203	13,203	15,850	0	-2,647	36,272	38,919	-2,647								
SUBTOTAL	32,821	28,430	32,400	-4,391	-3,970	32,821	28,430	32,400	-4,391	-3,970	72,973	76,941	-3,969								
b. COST OF MONEY	19	17	0	-3	17	19	17	0	-3	17	82	65	17								
c. GEN & ADMIN	5,429	4,702	0	-726	4,702	5,429	4,702	0	-726	4,702	23,237	18,537	4,700								
d. UNDISTRIBUTED BUDGET											0	0	0								
e. SUBTOTAL (PM Baseline)	38,269	33,149	32,400	-5,120	749	38,269	33,149	32,400	-5,120	749	165,467	165,569	-102								
f. MANAGEMENT RESERVE											18,385										
g. TOTAL	38,269	33,149	32,400	-5,120	749	38,269	33,149	32,400	-5,120	749	183,852										
6. RECONCILIATION TO CONTRACT BUDGET BASE																					
a. VARIANCE ADJUSTMENT									0	0											
b. TOTAL CONTR VARIANCE									0	0	0	0	0								

► What Is It?

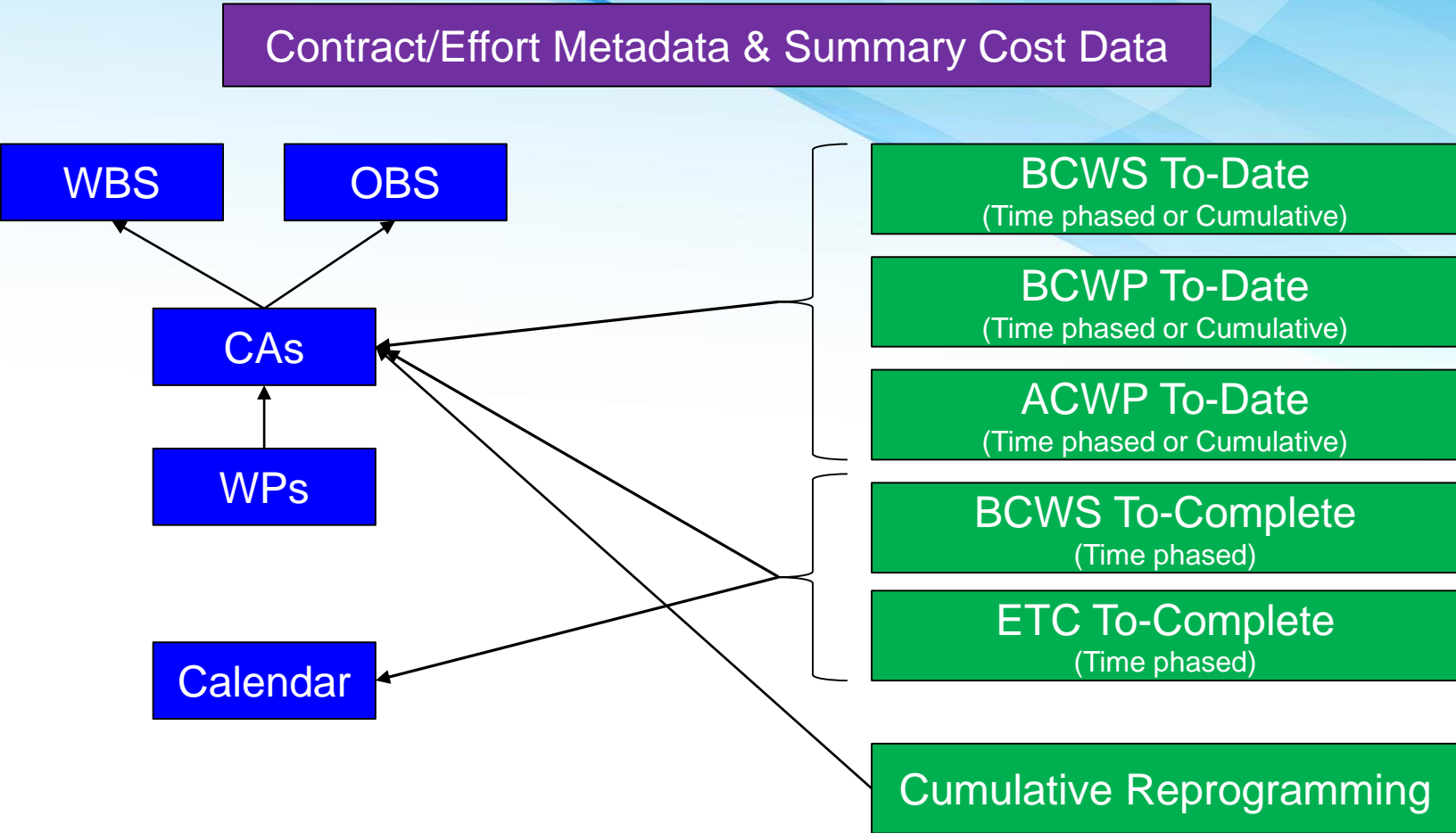
- A collection of JSON encoded data tables
- A generic database model of an EVMS

► Key Components

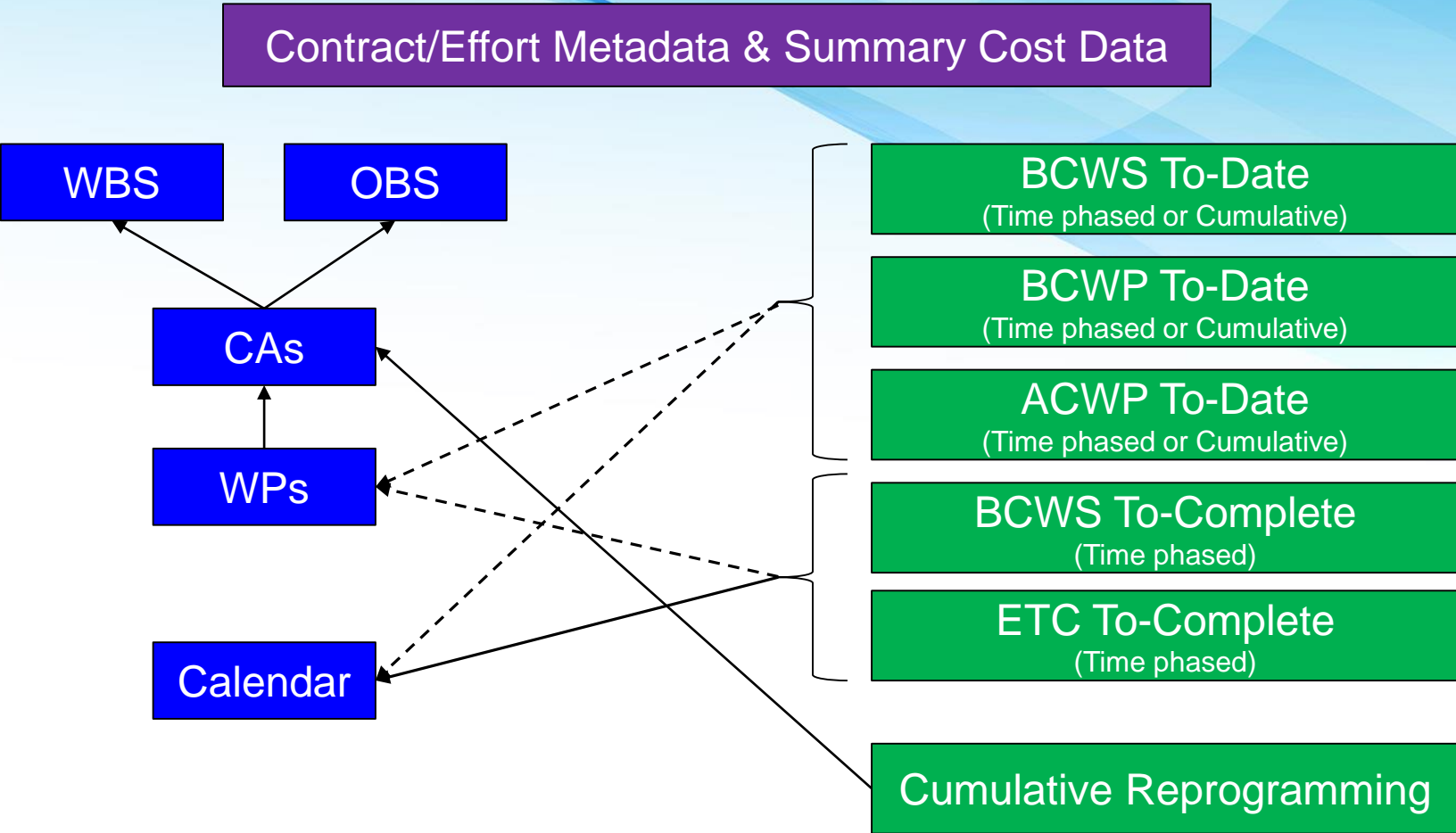
- **Metadata** / Contract Level
- **Structures** (cost & schedule)
- **Detailed Data**
 - To Date
 - To Complete
 - Cumulative Reprogramming
 - Schedule Dates & Durations
 - Task Relationships
 - Resource Utilization

CPD Data Tables	SPD Data Tables
Dataset Configuration	Dataset Metadata
Dataset Metadata	Source Software Metadata
Source Software Metadata	Project Schedule Data
Contract Data	Proj. Custom Field Definitions
Summary Performance	Proj. Custom Field Values
Custom Summary Performance	Calendars
Summary Indirect (To Date)	Calendar Workshifts
Summary Indirect (To Complete)	Calendar Exceptions
Subcontractors	Tasks
Work Breakdown Structure	Task Schedule Data
Org. Breakdown Structure	Task Custom Field Definitions
Control Accounts	Task Custom Field Values
CA Custom Field Definitions	Task Constraints
CA Custom Field Values	Task Relationships
Work Packages	Task Outline Structure
WP Custom Field Definitions	Resources
WP Custom Field Values	Res. Custom Field Definitions
Reporting Calendar	Res. Custom Field Values
BCWS (To Date)	Resource Assignments
BCWP (To Date)	
ACWP (To Date)	
BCWS (To Complete)	
EST (To Complete)	
Reprogramming Adjustments	

Defined in IPMDAR File Format Specification (FFS) Documents



Default Requirement: CA Level Data, To-Date Cumulative



Optional Extensions: WP Level Data, To-Date Time-Phased

► General

- Most metadata and contract/effort data maintained
- Removed
 - Quantity
 - Share Ratio
 - EVMS Acceptance

► Format 1 (WBS) & Format 2 (OBS)

- WBS and OBS structures provided
- Data provided by control account or work package
 - Dollars & Hours, Element Of Cost, direct or “loaded”
 - Cumulative to date or time phased
 - Time phased future BCWS and ETC
 - Optional detailed (CA or WP) indirect charges
 - Reprogramming adjustments (if needed)
- Provided data can be used to generate Format 1 & 2 (with differencing from prior period report to derive current period data)

► **Format 3 (Baseline Changes)**

- BCWR (e.g. BCWS To Complete) is provided time phased by CA or WP
- PMB (time phased) at End of Period is derived from CA/WP to-complete data
- PMB at Beginning of Period is derived from EOP from prior period report
- Baseline changes derived at CA or WP levels by differencing submission files
 - Traceable to the WBS or OBS
 - Dollars, hours, EOC, etc

► **Format 4 (Staffing)**

- Metadata / Contract Level
- Structures (cost & schedule)
- Detailed Data

► Data Contained in the CPD

- Hours
- Dollars
 - Total
 - By Element of Cost (Labor, Materials ODC, Sub)

► Are Cost Values Direct?

- The legacy Format 4 format indicates data is direct.
- EOC values should be considered direct
- In practice, data submissions make extensive use of the wInsight “NoAdd” flag

► The IPMDAR Support Multiple Representations

- Dollars can be reported as both direct and “loaded”
- EOC values can be reported as both direct and loaded
- Indirect values (OH, GA, COM) can be reported by CA/WP or in total

► Dataset Configuration Table Identifies Content

- Reporting by Control Account or Work Package
- To-Date data as cumulative or time-phased
- Reporting by Element of Cost (required by DID)
- Reporting “Direct” costs
- Reporting Indirect Costs at the detailed level (CA or WP)

The Fine Print Is Important

Constraints for this table depend on DatasetConfiguration as follows:

If ToDate_TimePhased has a value of true, ReportingPeriodID must not be null; otherwise, ReportingPeriodID must be null.

If BCWS_ToDate_ByWorkPackage has a value of true, WorkPackageID must not be null and ControlAccountID must be null; otherwise, ControlAccountID must not be null and WorkPackageID must be null.

If Detail_HasDirectValues has a value of true, Value_Dollars_Direct must not be null; otherwise, the Value_Dollars_Direct must be null.

If BCWS_ToDate_HasElementOfCostValues has a value of true, each of Value_Dollars_LAB, Value_Dollars_MAT, Value_Dollars_ODC, Value_Dollars_SUB must not be null; otherwise, each must be null.

If BCWS_ToDate_HasElementOfCostValues and Detail_HasDirectValues each have a value of true, each of Value_Dollars_LAB_Direct, Value_Dollars_MAT_Direct, Value_Dollars_ODC_Direct, Value_Dollars_SUB_Direct must not be null; otherwise, each must be null.

If Detail_HasIndirectValues has a value of true, each of Value_Dollars_OH, Value_Dollars_COM, Value_Dollars_GA must not be null; otherwise, each must be null.

If not null, ReportingPeriodID must have a value that is less than or equal to the value of ReportingPeriodID in DatasetMetadata.

BCWS To-Date
(Time phased or Cumulative)

Table	BCWS_ToDate		
Entity	BCWS_ToDate		
Fields	Name	Data Type	Nullable
	ControlAccountID	StringID	Conditional
	WorkPackageID	StringID	Conditional
	ReportingPeriodID	Integer	Conditional
	Value_Dollars	Decimal	No
	Value_Dollars_Direct	Decimal	Conditional
	Value_Dollars_LAB	Decimal	Conditional
	Value_Dollars_LAB_Direct	Decimal	Conditional
	Value_Dollars_MAT	Decimal	Conditional
	Value_Dollars_MAT_Direct	Decimal	Conditional
	Value_Dollars_ODC	Decimal	Conditional
	Value_Dollars_ODC_Direct	Decimal	Conditional
	Value_Dollars_SUB	Decimal	Conditional
	Value_Dollars_SUB_Direct	Decimal	Conditional
	Value_Dollars_OH	Decimal	Conditional
	Value_Dollars_COM	Decimal	Conditional
	Value_Dollars_GA	Decimal	Conditional
	Value_Hours	Decimal	No
Primary Key	ControlAccountID, WorkPackageID, ReportingPeriodID		
Foreign Keys	ControlAccountID: ControlAccount(ID) WorkPackageID: WorkPackage(ID) ReportingPeriodID: ReportingPeriod(ID)		



IPM Division Contact Info: OSD.DODEVM@mail.mil

EVM-CR Team Contact Info: EVM-CRSupport@Tecolote.com

EVM-CR Implementation of IPMDAR

Ms. Jen Horner

EVM-CR Deputy Program Manager
Tecolote Research, Inc.



► IPMDAR and the EVM-CR

- EVM-CR Reporting Requirements
- Incremental Delivery
- EVM-CR Submit & Review
- Tools

► IPMR

- All UNCLASSIFIED ACAT I programs required to submit

► IPMDAR

- All UNCLASSIFIED programs required to submit – regardless of ACAT designation

► IPMDAR DID Reference

- 1.5 Data Repository. The Office of the Under Secretary of Defense (OUSD) Acquisition, Analytics and Policy (AAP) Earned Value Management (EVM) Division maintains a secure website, the Earned Value Management Central Repository (EVM-CR)², for all unclassified, proprietary and non-proprietary data from programs and contracts that have EVM reporting requirements, regardless of a program's Acquisition Category (ACAT) designation or a contract's value. The EVM-CR is housed on an unclassified computer system designed to control sensitive and proprietary contractor data. The system will accept only unclassified data including contracts with EVM data that are marked as For Official Use Only (FOUO), Business Sensitive, and/or Proprietary. No classified material shall be provided to the EVM-CR. Refer to DoD Manual 5200.01 Volume 4 for information regarding designation and marking of Controlled Unclassified Information (CUI).

► 5000.85 Major Capability Acquisition (MCA) Pathway

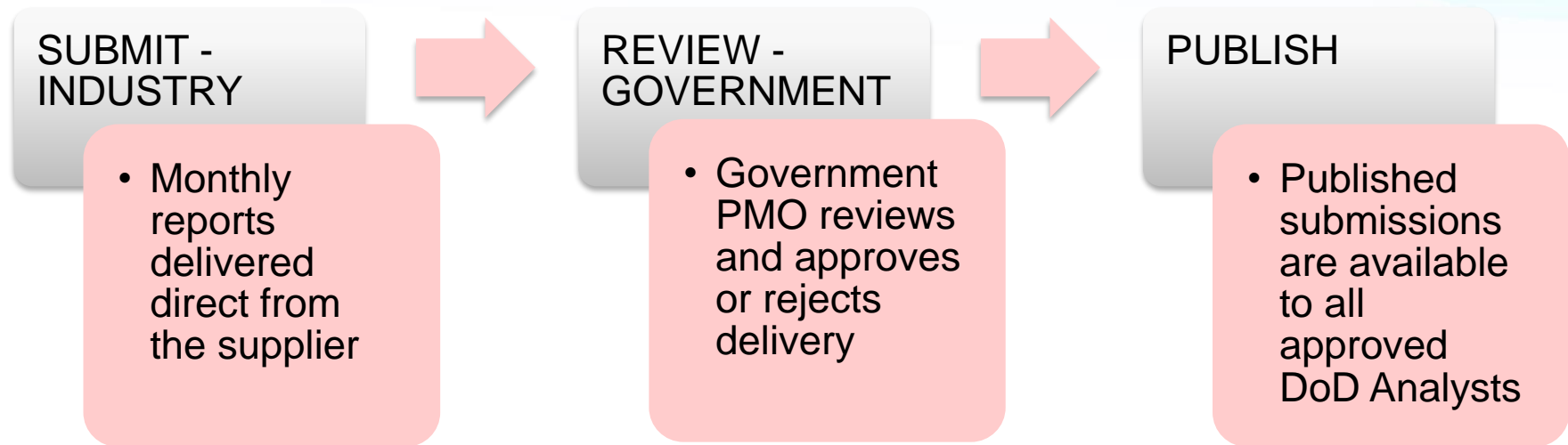
- All programs required to submit to the EVM-CR

EVMS Reporting Requirements Table

<u>Contract Value</u>	<u>Applicability</u>	<u>Notes</u>	<u>Source</u>
< \$20M	Not required	IPMDAR may be used if cost and/or schedule reporting is requested by the program management office	Integrated Program Management Report DID DI-MGMT-81861B*
≥ \$20M & < \$100M	Required monthly when EVMS requirement is on contract	All IPMDAR datasets/ files must be included in the CDRL. Tailoring in accordance with DI-MGMT-81861B and Implementation Guide is allowed.	
≥ \$100M	Required monthly when EVMS requirement is on contract	IPMDAR is required. All files are required.	
<u>Additional Information</u>			
<p>All contracts, task orders, and delivery orders, IPMDAR data will be delivered to the EVMS Central Repository.</p> <p>The IPMDAR can be tailored to collect cost and/or schedule data for any contract regardless of whether EVMS is required. For information on tailoring the IPMDAR, refer to the DoD IPMDAR Implementation Guide.</p> <p>Formats and reporting requirements for the IPMDAR are determined and managed by USD(A&S) through the Office of Acquisition Analytics and Policy (AAP).</p> <p>Reporting thresholds are in then-year dollars.</p> <p>* DI-MGMT-81861B = Data Item Management-81861</p>			


Any contracts >\$20M with EVM Reporting requirements must submit to the EVM-CR – independent of pathway

- The EVM-CR is a data repository managed by the EVM division of OUSD(A&S) AAP, the office of Acquisition, Analytics and Policy.
- The purpose of the EVM-CR is to establish a source of authoritative Earned Value Management (EVM) data for the Department and to provide prompt access for PMOs, Services, OSD, and DoD Components.



IPMDAR doesn't change this process

Access — Request via ADA IPM public website <https://www.acq.osd.mil/evm/#/home>



IPM
Integrated Program Management
A Division of Acquisition, Analytics and Policy



Request Access

EVM-CR

[Log In](#)

[Request Account](#)

[How to Register](#)

Industry

Submitter

RESPONSIBLE FOR
Delivery of reports

APPROPRIATE FOR
Industry contractors

Industry Reviewer

RESPONSIBLE FOR
Oversight of reports
delivered by all
submitters from their
organization

APPROPRIATE FOR
Industry contractors

Government

Reviewer

RESPONSIBLE FOR
Reviewing, approving, and
publishing reports

Managing submitters and
reviewers assigned to
efforts

APPROPRIATE FOR
Program Office

Analyst

ALLOWED TO
View and download
published reports

APPROPRIATE FOR
DoD



ACCESS EVM-CR via

- External Certification Authority (**ECA**) certificate
- Certificates issued by major contractors Boeing, Northrup Grumman, Raytheon, and Lockheed Martin

ACCESS EVM-CR via

- Common Access Card (**CAC**)
- NDAs: Support contractors must obtain and submit NDAs in order to gain reviewer or analyst permissions

▶ IPMDAR DID Reference

- 1.2 The IPMDAR consists of the following three components:

 - 1.2.1 Contract Performance Dataset (CPD). Provides performance/execution data from the contractor’s existing management systems.
 - 1.2.2 Schedule (Comprised of both the Native Schedule File and the Schedule Performance Dataset (SPD)). Provides data from the contractor’s Integrated Master Schedule (IMS).
 - 1.2.3 Performance Narrative Report (Comprised of both the Executive Summary and the Detailed Analysis Report). Provides narrative analysis of data provided in the CPD and the Schedule.

▶ IPMDAR vs. IPMR

IPMDAR	IPMR
CPD - Contract Performance Dataset (JSON)	Formats 1-4 & 7 XML (UN/CEFACT)
SPD - Schedule Performance Dataset	Format 6 XML (UN/CEFACT)
Native Schedule	Native Schedule
Performance Narrative <ul style="list-style-type: none">• Executive Summary• Variance Analysis	Format 5
Not Required	Formats 1-4 (Human Readable)

▶ Executive Summary

- A program and contract performance overview contains:
 - Top-level PM cost and schedule forecast
 - High-level variance summary
 - Undistributed budget (UB) and management reserve (MR) analysis

▶ Detailed Analysis Report

- Compilation of write-ups to describe the variances within a certain scope of the contract at the control account level.

▶ Legacy IPMR Delivery Requirement

- 12-17 Days after the close of the contractors accounting period

▶ IPMDAR Delivery Requirement

- Monthly submissions should be delivered to the EVM-CR **NLT 16 days** after the close of the contractor accounting period.

▶ IPMDAR DID Reference

1.8 Delivery Timing.

- 1.8.1 Monthly Submission Requirement. IPMDAR data shall be required at least monthly. The reporting frequency shall be specified in the Contract Data Requirements List (CDRL). All reports shall reflect data from the same accounting period and shall be provided at any time after the close of the contractor's accounting period, but no later than sixteen (16) business days after the contractor's accounting period end date.

► IPMDAR DID Reference

1.8.1.1 Incremental Delivery. Reports may be provided incrementally, including preliminary data, with the number of days for delivery of each submittal tailored in the CDRL. Data delivered is not considered authoritative until the final submission and signature. The recommended incremental delivery process is the Schedule, followed by the CPD and the Executive Summary, Government review of submittals, Government directed Detailed Analysis, Contractor Detailed Analysis delivery and all final data.⁵

► IPMDAR Implementation & Tailoring Guide - Example

For notional and guidance purposes the incremental delivery plan could be constructed as follows:

1. SPD – To be delivered with native file five (5) working days after the end of the contractor's accounting period (may be labeled preliminary)
2. CPD – To be delivered with the Executive Summary ten (10) working days after the end of the contractor's accounting period (may be labeled preliminary)
3. Contracting Office to select items for detailed analysis (variances) – to contractor thirteen (13) working days after the end of the contractor's accounting period
4. Performance Narrative Analysis – to be delivered NLT sixteen (16) working days after the end of the contractor's accounting period along with any other "final" versions of previously submitted files

Note: The notional incremental delivery plan above is not additive.

► IPMDAR CDRL Tailoring Options

- Level of reporting (Work package, Control Account, WBS, etc.)
- Units (dollars or hours, both)
- Frequency (monthly, incremental, weekly, quarterly, annually, upon request)
- Variance Analysis Options (Government Identified Variances, Government Specified Variance Thresholds, Specific Number of Variances)
- Tailoring out “formats” (e.g., Schedule Only deliverable)
- Eliminating Performance Narrative Report and using internally generated Contractor Explanations or performance reviews
- Eliminating Schedule Data set and receiving Native Format Schedule only

Additional tailoring options discussed in the IPMDAR Implementation and Tailoring Guide; available on the EVM public website

► CDRLs Determine Reporting Requirements

- IPMDAR DID is put on contract
- CDRLs created and sent to EVM-CR Admins
- Admins establish reporting requirements
- EVM-CR measures compliance against CDRL requirements (monthly reports sent to Services, Components and Industry corporate focal points).

Selected DID **IPMDAR** IPMR CPR/IMS

Cost	Submit Days	Submit Day Type	Frequency
Contract Performance Dataset	16	Business	Monthly

Schedule	Submit Days	Submit Day Type	Frequency
Schedule Performance Dataset	16	Business	Monthly
Native Schedule	16	Business	Monthly

Performance Narrative	Submit Days	Submit Day Type	Frequency
Executive Summary	16	Business	Monthly
Variance Analysis	16	Business	Monthly

CFSR	Submit Days	Submit Day Type	Frequency
CFSR	30	Calendar	Quarterly

Example: IPMDAR Default Reporting Requirements

1. Submitter should verify they are added to Contract Effort. If not, request access via the website. PMO Lead Reviewer responsible for assigning Submitters.

Enter Contract Number and click
“Send Request”

Please enter the contract number of the request.

Contract Number

Send Request

2. Submitter will click “Start Submission” to begin monthly submittal.







Start New Submission on Effort

Program	Contract	Effort	Effort Start Date	Effort End Date	
Jen's Program	ABCDE-00-A-0123	Delivery Order 1	7/1/2020	7/31/2025	Start Submission

What's New with Submit & Review Workflow?






- Delivery requirements clearly displayed with real time feedback:
 - ✓ File Uploaded
 - ✗ File Not Uploaded
- When file(s) are uploaded they are immediately accessible to gov't PMO.
- New "Open" status allows access by both gov't PMO and Submit team
- Cost & Schedule files contained in a single submission
- Immediate feedback on **Data Quality Validation Results**
- Program Office Review Team can now collaborate and vote to accept, reject or conditionally accept a file.
- Submit team and PMO can communicate via submission comments

Submitter Requirements Display

Reporting Requirements		
File Type	Upload	Included
Contract Performance Dataset		×
Schedule Performance Dataset		×
Native Schedule		×
Executive Summary		×
Variance Analysis		×
Other		

Reviewer Voting Display

Submission Files

	File Name	File Type	Version	Upload Date	File Comment	Votes	My Vote
	Sample File.zip	Electronic Cost (IPMDAR)	Final	10/29/2020		1 Accept	Accept 
	  						

► **Data View** — Reviewer and Submitter should verify data accuracy

Current Period Information

Current Period

Report From: 1/1/2018
Report To: 1/31/2018

Processed Date

Processed: 7/10/2020

Source Data Type

Source: IPMDAR

File Details

File ID: 397599
File Name: CPD Sample File.zip

Variances

At Complete: -\$4,485,380
Cumulative Schedule: -\$109,592
Cumulative Cost: -\$805,646

Total Schedule: \$809,266
Total Cost: \$2,033,584

Report Information

Program Name: Weapon System XYZ
Phase: Development
Contract: N0000-00-N-0000
Contract Type: CPFF
Contractor: Demo Corporation

Maximum WBS Level: 4
IPMR ID: 684980
Final IPMR: Yes
[Remove Final IPMR](#)

Performance Measurement Baseline (PMB)

MR: \$4,441,659
BAC: \$95,757,193
EAC: \$100,242,573
BCWS: \$20,474,837

BCWP: \$20,365,245
ACWP: \$21,170,891
CPI: 0.962
SPI: 0.995

Over Target Baseline (OTB)

OTB Date: 1/31/2017
BAC Adjustment: \$26,637,722
SV Adjustment: \$918,857

CV Adjustment: \$2,839,229
MR Adjustment: \$888,332

IPMR Header

Dollars in

Thousands

Quantity: 5
Share Above:
Share Below:
Original NCC: \$62,135,242
NCC: \$65,405,518
CBB: \$72,672,798
TAB: \$100,198,852
AUW: \$7,267,280

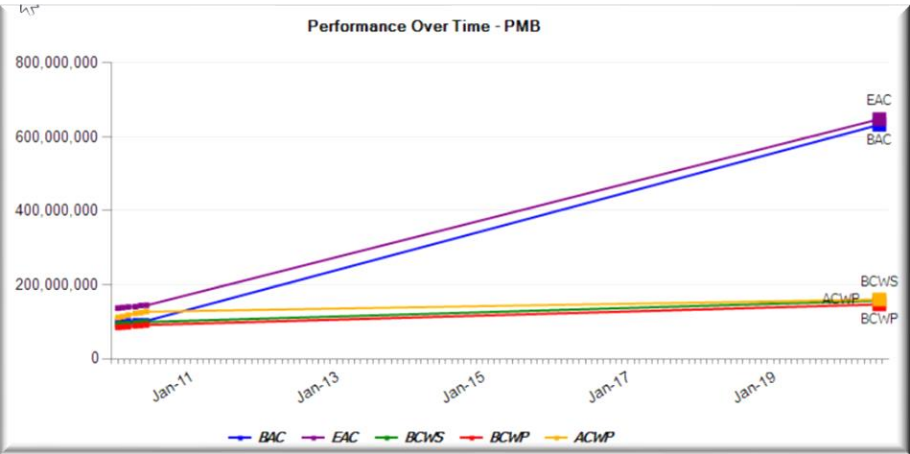
Contract Ceiling:
Estimated Ceiling:
Best Case EAC: \$93,798,757
Worst Case EAC: \$104,838,306
Most Likely EAC: \$100,242,573
Target Price: \$103,832,491
Estimated Price: \$103,832,491

IPMR Dates

Contract Start Date: 1/1/2016
Contract Definition Date: 1/1/2016
Planned Completion Date: 8/31/2022
Contract Completion Date: 8/31/2022
Estimated Completion Date: 8/31/2022

► **Data Validation Report** — Provides listing of all data checks and indicates if file passed or failed, available to Submitter

► **Performance Over Time Chart** — Provides visual rendering of PMB data received since effort reporting started





XLS Export

Provides a tabular view of JSON tables and data



CSV Export

Provides data in Excel pivotable table



XML Export

Generates a legacy IPMR UN/CEFACT file from data provided in the IPMDAR JSON

Submission Files

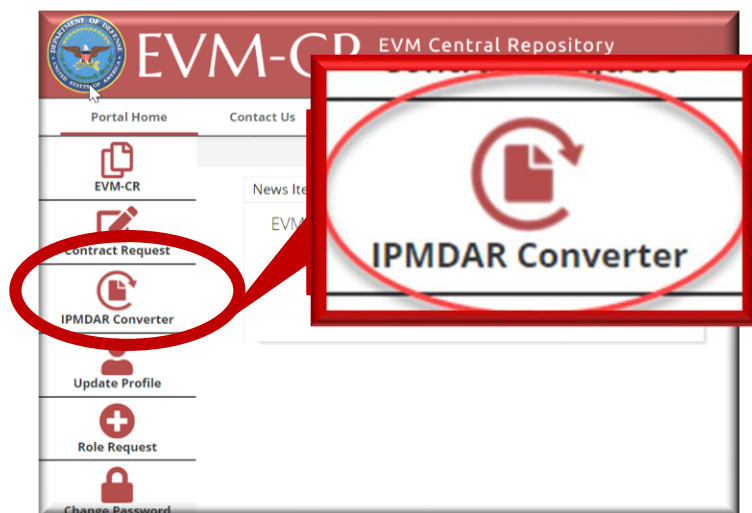
Cost

	File Name	Report Type
	CPD Sample File.zip	Electronic Cost

IPMDAR File Converter

- Generates a legacy IPMR Cost – UN/CEFACT file from the IPMDAR CPD JSON file
- Generates a legacy IPMR Format 6 file from the IPMDAR SPD JSON file

**Web based tool
Requires EVM-CR Account**



Downloadable Tools

- **Validation Utilities** check the file against the DEI (Data Exchange Instructions)
 - CPD and SPD
- **Conversion Utilities** generate legacy IPMR formats from IPMDAR files
 - CPD and SPD



Available on our public website and do not require an EVM-CR account to download



Many government networks block the download of an executable file.

Reminders:

- Do not require delivery of legacy IPMR or CPR Formats (UN/CEFACT, human readable formats 1 – 4* or legacy wInsight)
- Do not tailor out IPMR “Formats” (Format 1 – 4)
- Do not require a specific due date, such as delivery is required on the 25th of each month

**Excludes Performance Narrative, which is in human-readable contractor format*

Recommendations:

- Discuss with contractor definition of “Business Days”
 - NLT 16 GOVERNMENT Business Days after the end of the contractors accounting period.

► Acronyms

- CPD – Contract Performance Dataset
- DEI – Data Exchange Instructions
- DID – Data Item Description
- EVM-CR – Earned Value Management Central Repository
- FFS – File Format Specification
- IPMDAR – Integrated Program Management Data and Analysis Report
- IPMR – Integrated Program Management Report
- SPD - Schedule Performance Dataset

► References

- DEI & FFS
<https://www.acq.osd.mil/evm/#/policy-guidance/ipmdar-dei-ffs>
- DID
https://quicksearch.dla.mil/qsDocDetails.aspx?ident_number=278901
- Implementation & Tailoring Guide
<https://www.acq.osd.mil/evm/assets/docs/IPMDAR%20Implementation%20Guide%20-%20May2020%20-%20FINAL%20-%20Signed%20and%20Dated.pdf>
- Desktop Tools
<https://www.acq.osd.mil/evm/#/resources>



IPM Division Contact Info: OSD.DODEVM@mail.mil

EVM-CR Team Contact Info: EVM-CRSupport@Tecolote.com

Backup

- ▶ Ability to convert IPMDAR data to IPMR format; generate legacy reports, e.g., CPR Format 1
- ▶ Ability to convert IPMDAR data to flattened table for use with Excel Pivot Tables

Flattened IPMDAR Contract Performance Data

	A	B	C	D	E	F	G	H	T	BT	BU	BV	CI
										ReportingPeriod	ReportingPeriod	BCWS_ToDate	BCWS_ToDate
1	WBSElement_ID	WBSElem	WBSElem	WBSElem	WBSElem	WBSElem	WBSElem	WBSElem	OBSElement	_StartDate	_EndDate	_Dollars	_Hours
2	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT1	1/1/2016	1/31/2018	143310669	496187
3	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT2	1/1/2016	1/31/2018	115537096	379292
4	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT3	1/1/2016	1/31/2018	183217580	704744
5	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT4	1/1/2016	1/31/2018	136752176	520743
6	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT8	1/1/2016	1/31/2018	338042138	1242188
7	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	SUB1	1/1/2016	1/31/2018	32451945	106315
8	1.1.1.1	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	SUB2	1/1/2016	1/31/2018	239090698	1148320
9	1.1.1.2	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT1	1/1/2016	1/31/2018	309850733	1243865
10	1.1.1.2	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT2	1/1/2016	1/31/2018	142434439	495856
11	1.1.1.2	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT5	1/1/2016	1/31/2018	270273751	1016678
12	1.1.1.2	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT6	1/1/2016	1/31/2018	438862695	1905454
13	1.1.1.2	Subsystem	4	TOTAL	TOTAL	1.1	Subsystem	1.1.1	DEPT8	1/1/2016	1/31/2018	479965908	1874628

IPMDAR Contract Performance Data Pivot Table

	A	B	C	D	E	F
		BCWS (cum) Dollars	BCWP (cum) Dollars	ACWP (cum) Dollars	BAC Dollars	EAC Dollars
2	Subsystem 1.1.1.1	1,188,402,302	1,179,863,381	1,230,372,504	5,312,714,570	5,552,875,441
3	Subsystem 1.1.1.2	1,908,407,845	1,903,155,769	1,965,170,406	5,457,664,553	5,700,812,098
4	Subsystem 1.1.2.1	195,179,376	193,043,167	205,147,097	5,197,985,319	5,473,525,574
5	Subsystem 1.1.2.2	1,017,945,502	1,011,403,571	1,054,218,411	4,943,539,186	5,170,232,248
6	Subsystem 1.1.2.3	407,974,213	404,074,730	424,625,436	4,458,433,646	4,687,989,371
7	Subsystem 1.1.2.4	592,493,574	583,689,994	617,502,304	4,954,064,169	5,181,536,035
8	Subsystem 1.1.2.5	1,081,433,715	1,075,048,600	1,115,602,129	5,113,518,905	5,346,274,174
9	Subsystem 1.2	265,007,114	264,898,784	271,975,642	834,063,998	871,905,997
10	Subsystem 1.3	467,397,659	467,668,141	477,943,473	1,467,312,182	1,521,972,827
11	Subsystem 1.4.1	637,229,877	634,449,916	660,701,358	3,653,622,569	3,834,103,657
12	Subsystem 1.4.2	1,129,820,555	1,127,336,606	1,166,395,452	5,293,640,827	5,546,590,975
13	Subsystem 1.4.3	371,897,253	366,726,680	384,940,841	3,590,155,263	3,769,497,733
14	Subsystem 1.4.4	1,293,674,528	1,282,369,044	1,337,731,996	5,874,011,941	6,151,908,827
15	Subsystem 1.4.5.1	1,012,372,519	1,010,778,113	1,049,361,908	5,691,530,428	5,954,989,890
16	Subsystem 1.4.5.2	1,197,703,487	1,191,066,957	1,244,760,990	4,709,211,139	4,932,976,793
17	Subsystem 1.5.1	2,152,349,235	2,144,454,088	2,213,720,283	5,607,884,443	5,840,395,071
18	Subsystem 1.5.2	1,645,882,153	1,632,402,942	1,707,698,335	6,068,129,166	6,346,453,244
19	Subsystem 1.5.3	1,157,959,591	1,151,474,588	1,200,942,499	5,000,515,150	5,243,862,020
20	Subsystem 1.6	510,999,832	512,144,130	525,966,049	1,603,626,837	1,682,204,597
21	Summary: Cost of Money	203,967,852	202,917,155	210,908,040	953,572,742	997,787,299
22	Summary: General & Administrative	2,036,738,911	2,026,278,984	2,105,205,860	9,509,623,811	9,948,177,798
23	Grand Total	20,474,837,093	20,365,245,340	21,170,891,013	95,294,820,844	99,756,071,669

PivotTable Fields

Choose fields to add to report:

- ☐ WBS_Element_ID
- ☒ WBS_Element_Name
- ☐ WBS_Element_Level
- ☐ WBS_Element_ID_Level1
- ☐ WBS_Element_Name_Level1
- ☐ WBS_Element_ID_Level2
- ☐ WBS_Element_Name_Level2

Drag fields between areas below:

FILTERS

COLUMNS

ROWS

VALUES

Defer Layout Update

UPDATE



Responsibility Assignment Matrix

Sum of BCWS_ToComplete_Dollars		Column Labels														
Row Labels	Cpt Picard	Cpt. Kirk	Dr Crusher	Dr Pulaski	Mr. Data	Mr. E. Computer	Mr. L. McCoy	Mr. La Forge	Mr. Q	Mr. Riker	Mr. Spock	Mr. Worf	Ms. Guinan	Ms. T. Yar	Ms. Troi	Grand Total
Department 1		750954204	1244411849				1630052364				1865364717					5490783134
BMXF-MPJF-SPVD			255748347													255748347
BQDH-GDNV-GVLP							342192051									342192051
DGXF-QTVR-LDLT							94769357									94769357
DHNQ-DZFW-BHVM											101107804					101107804
FNLV-VXQW-MJQF											609170702					609170702
GQVR-SYBG-QWQY							369697724									369697724
LWPP-JKCH-DHLW							109605215									109605215
NFQB-CLQS-TNYG			551015710													551015710
PCMS-FVSX-RJKP			437647792													437647792
PPCZ-JXLN-JFSL											323329727					323329727
PVJZ-HFKS-QRRY																381989375
RLBW-TGHD-FCPX											478813141					478813141
TDYZ-ZXKX-NYHX							331798642									331798642
TSQD-PCZS-TZDP											352943343					352943343
VTKF-ZZHX-YXMX			430733622													430733622
XYJM-MFPH-RXRG			320220582													320220582
Department 2	628955144				3349305886					1220517189					1932382504	7131160723
Department 3								2582858379				2782641771		2519030150		7884530300
Department 4													6709551675			6709551675
Department 5						5658985328										5658985328
Department 6						7169112322										7169112322
Department 7						7129586928										7129586928
Department 8						7300900593										7300900593
Subcontractor 1																
Subcontractor 2				5679931881												
Summary: Cost of Money						749604890										749604890
Summary: COM						749604890										749604890
Summary: General & Administrative						7472884900										7472884900
Summary: GA						7472884900										7472884900
Grand Total	628955144	750954204	1244411849	5679931881	3349305886	35481074961	1630052364									

Estimate to Complete by Control Account ➔

Sum of BCWS_ToComplete_Dollars		Column Labels				
Row Labels	Cpt. Kirk	Dr Crusher	Mr. L. McCoy	Mr. Spock	Grand Total	
Department 1	750954204	1244411849	1630052364	1865364717	5490783134	
BMXF-MPJF-SPVD		255748347			255748347	
BQDH-GDNV-GVLP			342192051		342192051	
DGXF-QTVR-LDLT			94769357		94769357	
DHNQ-DZFW-BHVM				101107804	101107804	
FNLV-VXQW-MJQF				609170702	609170702	
GQVR-SYBG-QWQY			369697724		369697724	
LWPP-JKCH-DHLW			109605215		109605215	
NFQB-CLQS-TNYG		551015710			551015710	
PCMS-FVSX-RJKP		437647792			437647792	
PPCZ-JXLN-JFSL				323329727	323329727	
PVJZ-HFKS-QRRY			381989375		381989375	
RLBW-TGHD-FCPX				478813141	478813141	
TDYZ-ZXKX-NYHX			331798642		331798642	
TSQD-PCZS-TZDP				352943343	352943343	
VTKF-ZZHX-YXMX	430733622				430733622	
XYJM-MFPH-RXRG	320220582				320220582	
Grand Total	750954204	1244411849	1630052364	1865364717	5490783134	

Separating The Data From Printable Formats Enables Utilization Of Modern Tools





Budget At Complete by Control Account

Sum of BCWS_AtCompleti Column Labels														
											Summary: Cost		Summary: General &	
	Department 1	Department 2	Department 3	Department 4	Department 5	Department 6	Department 7	Department 8	Subcontractor 1	Subcontractor 2	of Money	Administrative	Grand Total	
Subsystem 1.1.1.1	\$ 463,531,251	\$ 493,798,214	\$ 492,274,403	\$ 288,094,804	\$ 375,837,163	\$ 370,245,647	\$ 991,964,798	\$ 833,542,968	\$ 601,360,669	\$ 402,064,653	\$ -	\$ -	\$ 5,312,714,570	
Subsystem 1.1.1.2	\$ 740,584,355	\$ 393,128,465	\$ 677,529,702	\$ 270,830,128	\$ 784,933,168	\$ 795,549,681	\$ 252,786,040	\$ 724,867,638	\$ 425,063,294	\$ 392,392,082	\$ -	\$ -	\$ 5,457,664,553	
Subsystem 1.1.2.1	\$ 609,170,702	\$ 274,729,718	\$ 488,359,338	\$ 270,210,682	\$ 581,109,921	\$ 466,380,337	\$ 522,373,871	\$ 663,573,463	\$ 1,002,692,880	\$ 319,384,407	\$ -	\$ -	\$ 5,197,985,319	
Subsystem 1.1.2.2	\$ 177,812,934	\$ 423,233,743	\$ 362,819,878	\$ 849,451,563	\$ 501,419,224	\$ 379,079,857	\$ 406,142,501	\$ 462,345,680	\$ 562,147,762	\$ 819,086,044	\$ -	\$ -	\$ 4,943,539,186	
Subsystem 1.1.2.3	\$ 410,371,788	\$ 523,029,947	\$ 452,998,317	\$ 377,466,809	\$ 328,863,325	\$ 235,467,492	\$ 923,113,111	\$ 314,591,146	\$ 416,693,581	\$ 475,838,130	\$ -	\$ -	\$ 4,458,433,646	
Subsystem 1.1.2.4	\$ 522,076,604	\$ 454,362,781	\$ 175,907,369	\$ 473,630,465	\$ 558,561,723	\$ 413,016,470	\$ 166,851,143	\$ 562,725,722	\$ 733,849,274	\$ 893,082,618	\$ -	\$ -	\$ 4,954,064,169	
Subsystem 1.1.2.5	\$ 539,655,757	\$ 394,045,301	\$ 509,395,843	\$ 331,496,346	\$ 646,577,038	\$ 819,286,564	\$ 477,433,874	\$ 602,916,402	\$ 266,424,917	\$ 526,286,863	\$ -	\$ -	\$ 5,113,518,905	
Subsystem 1.2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 834,063,998	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 834,063,998	
Subsystem 1.3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,467,312,182	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,467,312,182	
Subsystem 1.4.1	\$ 437,352,599	\$ 432,023,442	\$ 334,812,915	\$ 575,681,148	\$ 216,216,501	\$ 153,033,942	\$ 423,485,864	\$ 265,988,216	\$ 353,782,624	\$ 461,245,318	\$ -	\$ -	\$ 3,653,622,569	
Subsystem 1.4.2	\$ 202,968,810	\$ 454,918,557	\$ 417,564,548	\$ 607,359,728	\$ 212,830,613	\$ 488,901,526	\$ 927,636,838	\$ 730,146,094	\$ 979,346,986	\$ 271,967,127	\$ -	\$ -	\$ 5,293,640,827	
Subsystem 1.4.3	\$ 331,798,642	\$ 258,036,410	\$ 489,609,676	\$ 319,688,498	\$ 328,266,601	\$ 247,636,734	\$ 333,937,851	\$ 605,795,873	\$ 427,110,255	\$ 248,274,723	\$ -	\$ -	\$ 3,590,155,263	
Subsystem 1.4.4	\$ 369,697,724	\$ 599,199,934	\$ 858,727,469	\$ 782,137,450	\$ 500,625,444	\$ 372,146,138	\$ 864,136,333	\$ 563,496,687	\$ 275,307,111	\$ 688,537,651	\$ -	\$ -	\$ 5,874,011,941	
Subsystem 1.4.5.1	\$ 325,837,648	\$ 1,080,353,740	\$ 500,007,872	\$ 486,521,799	\$ 842,264,755	\$ 355,283,412	\$ 304,966,926	\$ 770,265,240	\$ 549,783,722	\$ 476,245,314	\$ -	\$ -	\$ 5,691,530,428	
Subsystem 1.4.5.2	\$ 381,989,375	\$ 761,476,545	\$ 470,897,320	\$ 1,074,397,177	\$ 233,616,512	\$ 404,222,309	\$ 189,357,960	\$ 242,356,775	\$ 288,253,319	\$ 662,643,847	\$ -	\$ -	\$ 4,709,211,139	
Subsystem 1.5.1	\$ 457,276,028	\$ 700,368,826	\$ 421,421,684	\$ 357,817,466	\$ 259,979,617	\$ 1,159,398,990	\$ 553,937,408	\$ 784,246,462	\$ 539,534,757	\$ 373,903,205	\$ -	\$ -	\$ 5,607,884,443	
Subsystem 1.5.2	\$ 340,944,638	\$ 400,287,288	\$ 1,038,900,704	\$ 1,064,072,585	\$ 251,085,184	\$ 317,320,730	\$ 798,457,870	\$ 723,138,384	\$ 507,262,183	\$ 626,659,600	\$ -	\$ -	\$ 6,068,129,166	
Subsystem 1.5.3	\$ 870,829,189	\$ 732,691,750	\$ 463,159,271	\$ 169,494,474	\$ 398,010,940	\$ 312,799,704	\$ 233,038,019	\$ 638,559,574	\$ 552,972,533	\$ 628,959,696	\$ -	\$ -	\$ 5,000,515,150	
Subsystem 1.6	\$ -	\$ -	\$ 1,603,626,837	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,603,626,837	
Summary: Cost of Money	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 953,572,742	\$ -	\$ 953,572,742	
Summary: General & Admin	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,509,623,811	\$ 9,509,623,811	
Grand Total	\$ 7,181,898,044	\$ 8,375,684,661	\$ 9,758,013,146	\$ 8,298,351,122	\$ 7,020,197,729	\$ 9,591,145,713	\$ 8,369,620,407	\$ 9,488,556,324	\$ 8,481,585,867	\$ 8,266,571,278	\$ 953,572,742	\$ 9,509,623,811	\$ 95,294,820,844	

ControlAccount_ManagerName	Mr. Data	
Sum of BCWS_ToComplete_Dollars Column Labels		
Row Labels	Department 2	Grand Total
Subsystem 1.4.5.1	1080353740	1080353740
Subsystem 1.4.5.2	666617008	666617008
Subsystem 1.5.1	593246143	593246143
Subsystem 1.5.2	313315512	313315512
Subsystem 1.5.3	695773483	695773483
Grand Total	3349305886	3349305886



CAM Budget

	BCWS (cum) Dollars	BCWS (cum) Hours
Summary: Cost of Money	203,967,852	0
Summary: General & Administrative	2,036,738,911	0
TOTAL	18,234,130,330	69,876,865
Subsystem 1.1	6,391,836,527	24,417,208
Subsystem 1.1.1	3,096,810,147	12,160,830
Subsystem 1.1.2	3,295,026,380	12,256,378
Subsystem 1.2	265,007,114	1,040,467
Subsystem 1.3	467,397,659	1,855,008
Subsystem 1.4	5,642,698,219	21,274,715
Subsystem 1.4.1	637,229,877	2,387,638
Subsystem 1.4.2	1,129,820,555	4,182,659
Subsystem 1.4.3	371,897,253	1,490,751
Subsystem 1.4.4	1,293,674,528	4,657,760
Subsystem 1.4.5	2,210,076,006	8,555,907
Subsystem 1.5	4,956,190,979	19,172,227
Subsystem 1.5.1	2,152,349,235	8,043,515
Subsystem 1.5.2	1,645,882,153	6,418,807
Subsystem 1.5.3	1,157,959,591	4,709,905
Subsystem 1.6	510,999,832	2,117,240
Grand Total	20,474,837,093	69,876,865



Side-by-Side Dollars/Hours

Separating The Data From Printable Formats Enables Utilization Of Modern Tools





Element of Cost by Control Account (Hours/Dollars)

ControlAccount_ManagerName		(All)						
Row Labels	BCWS Hours ToDate	BCWS ToDate \$	BCWS ToDate Lab \$	BCWS ToDate Mat \$	BCWS ToDate ODC \$	BCWS ToDate Sub \$	BCWS Hours ToCmpt	BCWS ToCmpt \$
Summary: Cost of Money	0	\$203,967,852	\$0	\$0	\$0	\$0	0	\$749,604,890
Summary: General & Administrative	0	\$2,036,738,911	\$0	\$0	\$0	\$0	0	\$7,472,884,900
TOTAL	69876865	\$18,234,130,330	\$7,251,267,995	\$4,572,743,060	\$1,831,293,797	\$4,578,825,478	253136716	\$66,597,493,961
Subsystem 1.1	24417208	\$6,391,836,527	\$2,544,102,246	\$1,594,156,919	\$641,717,039	\$1,611,860,323	110099392	\$29,046,083,821
Subsystem 1.1.1	12160830	\$3,096,810,147	\$1,228,923,142	\$774,562,387	\$309,662,078	\$783,662,540	28391211	\$7,673,568,976
Subsystem 1.1.2	12256378	\$3,295,026,380	\$1,315,179,104	\$819,594,532	\$332,054,961	\$828,197,783	81708181	\$21,372,514,845
Subsystem 1.2	1040467	\$265,007,114	\$104,115,541	\$67,676,296	\$25,685,658	\$67,529,619	2238544	\$569,056,884
(blank)	1040467	\$265,007,114	\$104,115,541	\$67,676,296	\$25,685,658	\$67,529,619	2238544	\$569,056,884
Subsystem 1.3	1855008	\$467,397,659	\$195,806,670	\$115,572,447	\$44,238,411	\$111,780,131	3771757	\$999,914,523
(blank)	1855008	\$467,397,659	\$195,806,670	\$115,572,447	\$44,238,411	\$111,780,131	3771757	\$999,914,523
Subsystem 1.4	21274715	\$5,642,698,219	\$2,214,134,722	\$1,423,372,422	\$571,093,753	\$1,434,097,322	88951915	\$23,169,473,948
Subsystem 1.4.1	2387638	\$637,229,877	\$254,972,824	\$163,571,149	\$64,472,038	\$154,213,866	11699958	\$3,016,392,692
Subsystem 1.4.2	4182659	\$1,129,820,555	\$443,994,690	\$284,927,080	\$111,925,918	\$288,972,867	16485389	\$4,163,820,272
Subsystem 1.4.3	1490751	\$371,897,253	\$144,736,375	\$90,400,269	\$39,192,858	\$97,567,751	12638031	\$3,218,258,010
Subsystem 1.4.4	4657760	\$1,293,674,528	\$488,296,318	\$332,485,939	\$130,775,818	\$342,116,453	17226071	\$4,580,337,413
Subsystem 1.4.5	8555907	\$2,210,076,006	\$882,134,515	\$551,987,985	\$224,727,121	\$551,226,385	30902466	\$8,190,665,561
Subsystem 1.5	19172227	\$4,956,190,979	\$1,983,395,612	\$1,242,147,946	\$502,878,519	\$1,227,768,902	43892533	\$11,720,337,780
Subsystem 1.5.1	8043515	\$2,152,349,235	\$850,656,059	\$530,493,461	\$224,874,225	\$546,325,490	12738157	\$3,455,535,208
Subsystem 1.5.2	6418807	\$1,645,882,153	\$657,715,794	\$419,378,558	\$161,881,377	\$406,906,424	16650306	\$4,422,247,013
Subsystem 1.5.3	4709905	\$1,157,959,591	\$475,023,759	\$292,275,927	\$116,122,917	\$274,536,988	14504070	\$3,842,555,559
Subsystem 1.6	2117240	\$510,999,832	\$209,713,204	\$129,817,030	\$45,680,417	\$125,789,181	4182575	\$1,092,627,005
(blank)	2117240	\$510,999,832	\$209,713,204	\$129,817,030	\$45,680,417	\$125,789,181	4182575	\$1,092,627,005
Grand Total	69876865	\$20,474,837,093	\$7,251,267,995	\$4,572,743,060	\$1,831,293,797	\$4,578,825,478	253136716	\$74,819,983,751

Separating The Data From Printable Formats Enables Utilization Of Modern Tools



Time-
Phased
Future
Forecast
by CAM
(Dollars)

Sum of BCWS_ToComplete_Dollars Column Labels														
Row Labels		7/31/2019	8/31/2019	9/30/2019	10/31/2019	11/30/2019	12/31/2019	1/31/2020	2/29/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	
Mr. La Forge		65703951	82112263	82314881	82807397	80349957	80094450	83304906	81106558	84300462	81626195	84530409	63963078	
BLYK-XLHH-WDHG		17100249	15537669	17564130	17433769	16536396	16061107	17753693	16052180	16734273	15904784	16918761	17584618	
JFYZ-WWCY-YXHB		9742614	10087615	8628042	9329935	9632646	9810990	9931498	9613136	9616199	9551737	10052177	9051194	
KTQQ-XFZY-DYCP		9761042	10084179	10477115	10433407	9833519	10229348	10405896	9550157	10404835	10452532	9840909	10807356	
RWCG-TXRN-LYGC		19789771	20219645	19074222	18843001	18478330	19034744	18589912	19981323	20472894	19996580	20692924		
SWRG-HCFK-HKTZ		9310275	8363573	8966176	9270872	8746552	8295459	9420865	9097952	9154239	8072280	8971198	8926297	
XXKG-KSQM-QRFG			17819582	17605196	17496413	17122514	16662802	17203042	16811810	17918022	17648282	18054440	17593613	

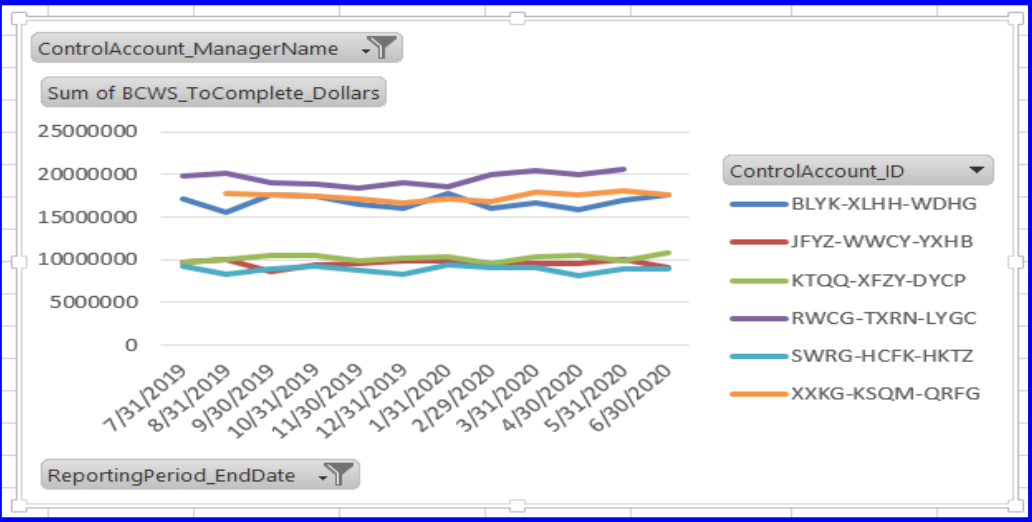
ReportingPeriod_EndDate

Q3 2019 - Q2 2020

QUARTERS

2016 2017 2018 2019 2020 2021 2022

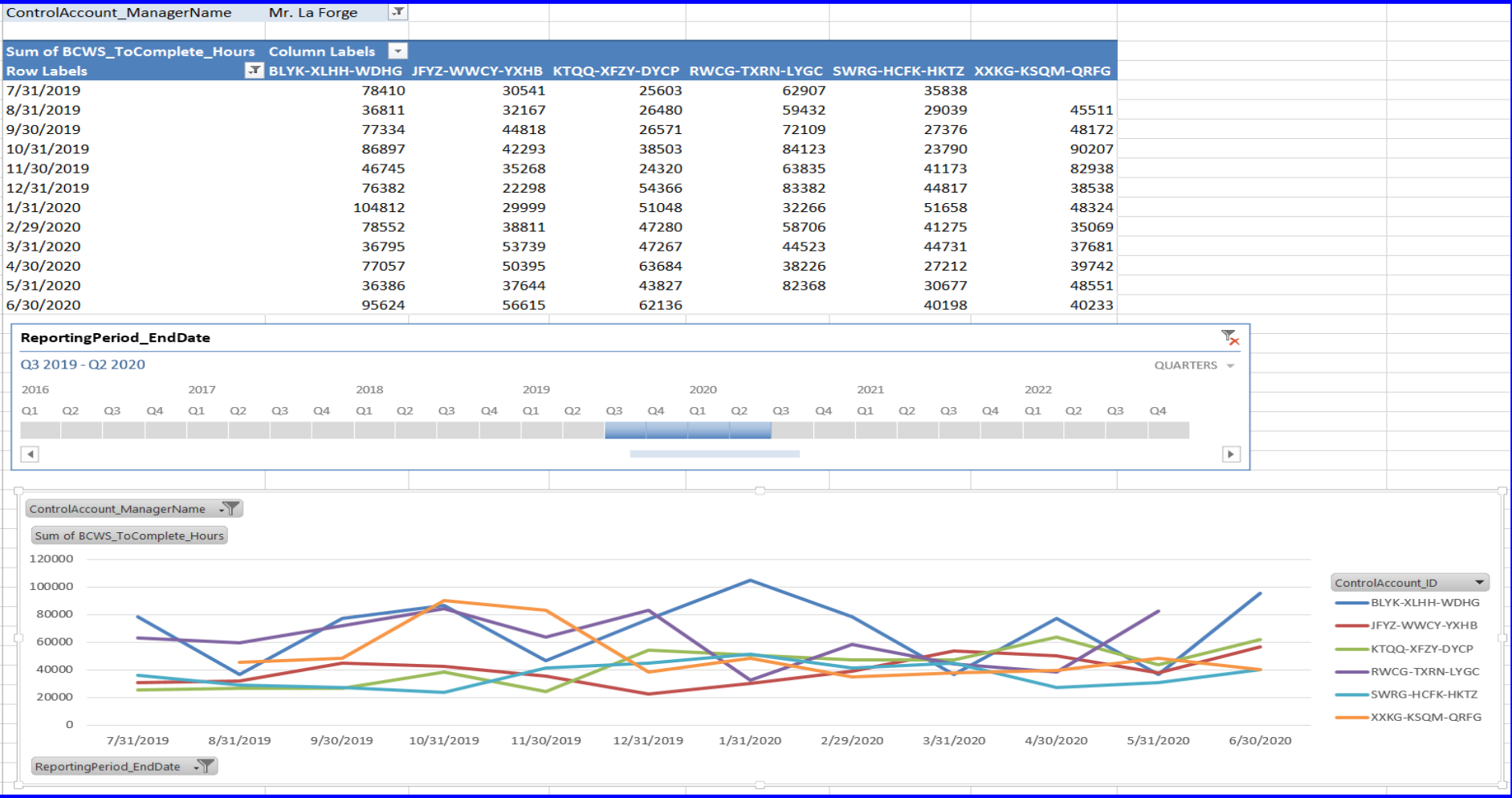
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4



CAM Forecast (Dollars)

Separating The Data From Printable Formats Enables Utilization Of Modern Tools

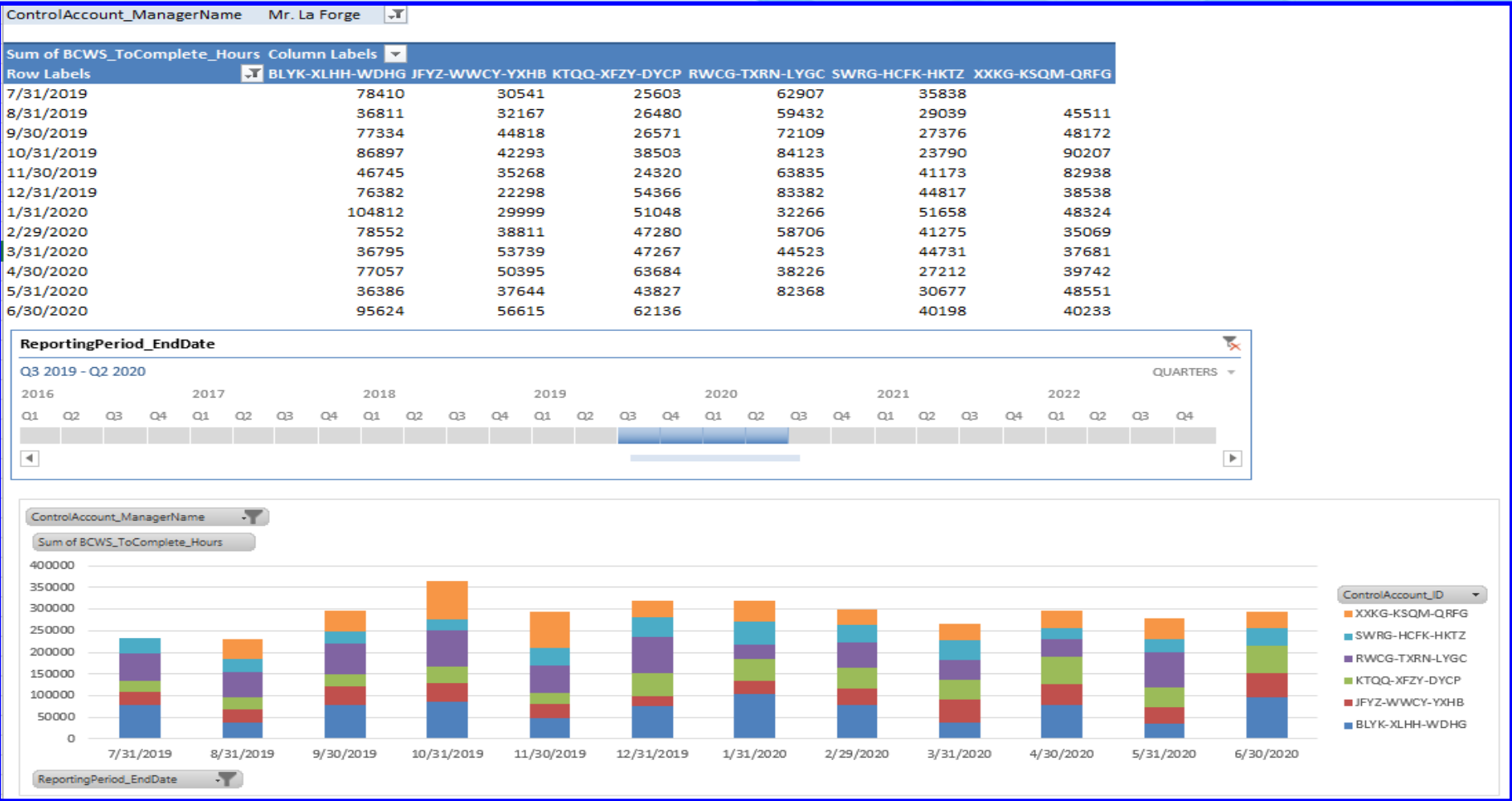
Time-Phased Forecast by CAM (Hours)



Separating The Data From Printable Formats Enables Utilization Of Modern Tools



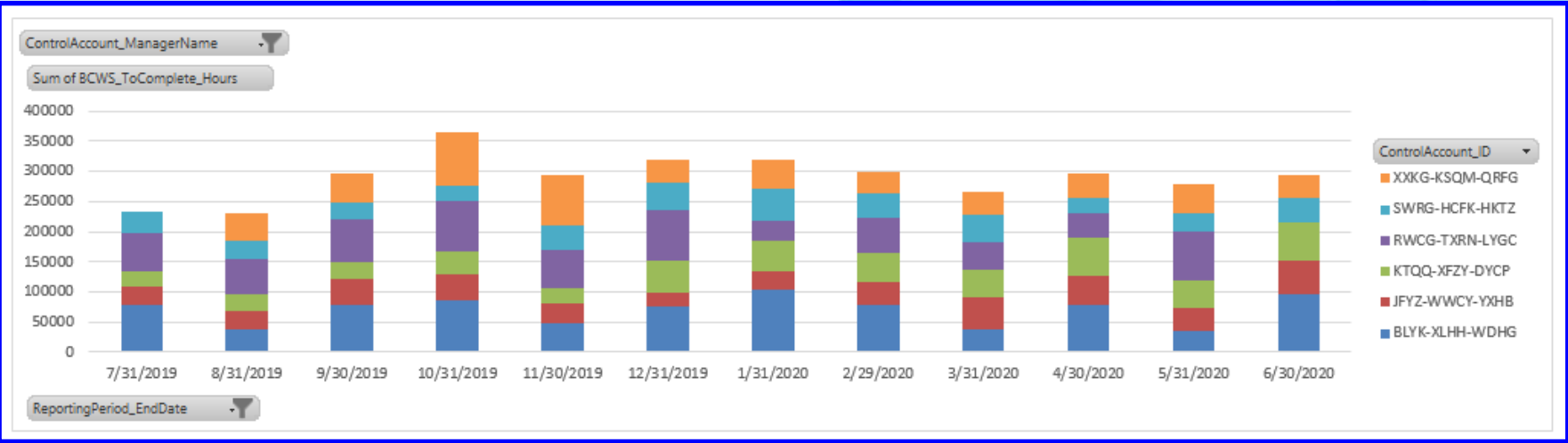
Time-Phased Future Forecast by CAM (Hours)



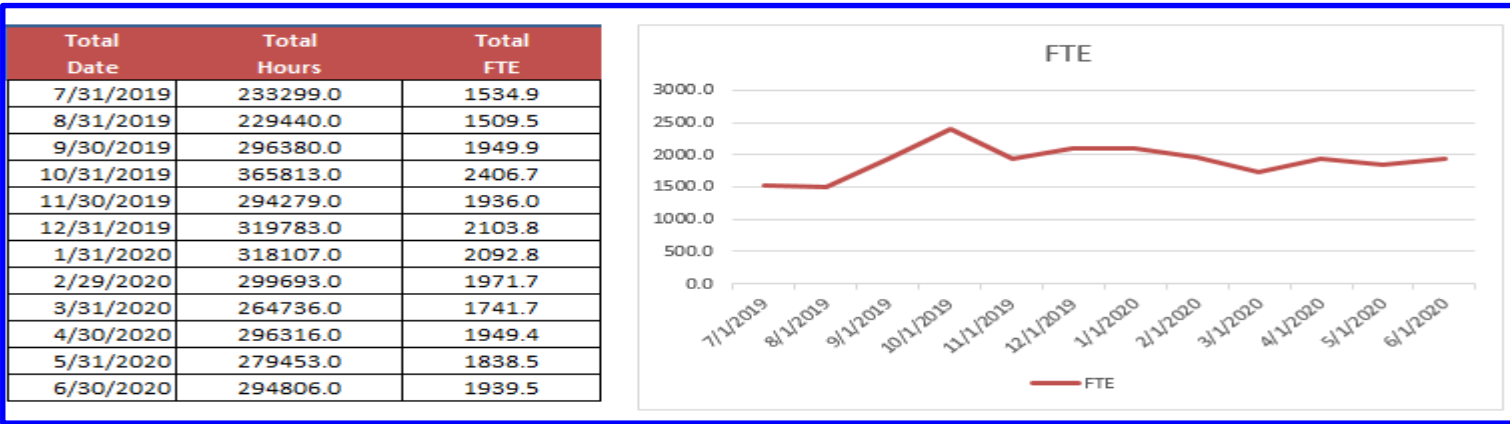
Separating The Data From Printable Formats Enables Utilization Of Modern Tools



Derived FTE Chart by Control Account



Derived FTE Chart by CAM



Separating The Data From Printable Formats Enables Utilization Of Modern Tools



Open Communication & Transparency Are Key To Effective Program Management